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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/040,221      | 10/29/2001  | Ouri Wolfson         | 01-1626             | 2901             |

7590 08/13/2003

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EXAMINER

NGUYEN, TAN QUANG

ART UNIT

PAPER NUMBER

3661

DATE MAILED: 08/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/040,221

**Applicant(s)**

WOLFSON, OURI

**Examiner**

TAN Q NGUYEN

**Art Unit**

3661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 18 June 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-54 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-54 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAIL ACTION

### ***Notice to Applicant(s)***

1. This office action is response to the amendment filed on June 18, 2003. Claims 1, 5, 18, 21, 22, 29, 38 and 41 have been amended. Thus, claims 1-54 are still pending.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-6 and 9-44 and 46-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ran (6,317,686). *in view of Lata (6,009,403)*

4. With respect to claims 1, 2, 11, 12, 15, Ran discloses a method and apparatus for generating the itinerary for the moving object which includes the steps of receiving a current location (see figure 11, item 118 or 113), obtaining a destination of the moving object (see figure 10A, item 102), computing a path between the current location and the destination (see figure 11, at least item 1111) and constructing a trajectory for the moving object (see at least figure 6, 7A, 7B, figure 11, item 118 or 1114, column 23, lines 48-54 and column 23, line 67 to column 24, line 2).

5. Ran does not explicitly disclose the predicting future locations of a moving object and the trajectory approximates a time-based motion of the moving objects along the path. However, Ran disclose the point to point itinerary with the predicted time as shown in at least figures 6 and 11 which can be equivalent to the predicted future locations since it lays out the all the detail of the recommendations on routing and itinerary for the trip from current location to destination. In addition, Sato suggests a travel plan prepare device which does includes the calculated route from the current location and the destination (see column 6, lines 55-60), and the trajectory which includes the futures positions along with the predicted time as shown in at least figure 7 and the related text). It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine these teaching in order to provide the system with the enhanced capability of generating the itinerary which includes that the lay out of predicting future locations of the moving object on the calculated route together with the predicted time for the user to have a better view to plan ahead.

6. With respect to claims 3 and 4, the itinerary and the map are sent to the moving object (see at least figures 10B and 11).

7. With respect to claim 5, such limitation is disclosed in at least the abstract and figure 10B.

8. With respect to claim 6, the steps for updating the itinerary based on the updated current location are shown in at least figure 11, item 1112 of the Ran reference.

9. With respect to claim 9 and 10, Ran also disclose that user has the option of choosing the desired route selection based on the shortest distance or a fastest travel time (see at least figure 10B, item 103).

10. With respect to claims 13 and 14, Ran further disclose that the system takes the traffic update into account for calculating the itinerary (see at least figures 6, 9 and 11).

11. With respect to claim 16, Ran discloses that GPS can be used to identify the current location of the moving object (see at least column 24, lines 14-16).

12. With respect to claim 17, Ran discloses that the moving object is a cell phone (see figure1, item 14).

13. With respect to claims 18, 20 and 21, Ran does disclose that the itinerary is calculated based on the travel speed, predicted travel speed and its direction (see at least the abstract, figures 3, 6, and 8). It would have been obvious to one of ordinary skill in the art to obtain the itinerary which is a plurality of line segments connecting the first location and the destination that are falls into the desired user selection.

14. With respect to claims 19 and 22-28, the limitations of these claims have been noted in the rejections above. They are therefore considered rejected as set forth above.

15. With respect to claim 43, Ran does not explicitly disclose the step of obtaining orientation of the moving object for computing a trajectory of the moving object. However, Ran does suggest the step of entering the destination of the moving as shown in at least figure 10A which also includes the orientation of the moving object based on the current location and the destination. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teaching of Ran by also allow the user to enter the orientation as his/her destination for calculating the recommended trip.

16. With respect to claims 44 and 46-49, the limitations of these claims have been noted in the rejections above. They are therefore considered rejected as set forth above.

17. With respect to claim 50, Ran disclose the claimed invention as discussed above except for the trajectory server. However, Ran does disclose means for generating an

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itinerary for the user based on the desired selection as shown in at least figures 8 and 11. It would have been obvious to one of ordinary skill in the art to realized that the Ran system should have a server to deliver the itinerary to the user upon request.

18. With respect to claims 51-54, the limitations of these claims have been noted in the rejections above and in the Ran reference in at least figure 1. They are therefore considered rejected as set forth above.

19. Claims 7, 8, 29-42 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ran and Sato as applied to claims above, and further in view of Tanimoto (5,911,775).

20. With respect to claims 7, 8, 29, 31, 38 and 45, Ran et al. and Sato disclose the claimed invention as discussed above except that the step of recomputing the path is when an error reaches a threshold. However, Tanimoto suggest a vehicle navigation system which provide the calculated optimum route from the current position and destination position and further provide the recalculated route when the vehicle is off route, i.e when the position of the current vehicle is off the calculated optimum route by a threshold (see at least figure 1 and the related text). It would have been obvious to one of ordinary skill in the art to incorporate the teaching of Tanimoto into the system of Ran et al. in order to provide the system with the enhanced capability of updating the itinerary when the moving object went off route in order to quickly guide the moving object toward the destination.

21. With respect to claims 30, 32-37 and 39-42, the limitations of these claims have been noted in the rejections aboves and in the Ran et al. and Sato references. They are therefore considered rejected as set forth above.

**Remarks**

22. All claims are rejected.

23. The following references are cited as being of general interest: Moroto et al. (5,787,383), Westerlage et al. (5,987,377), Bellesfield et al. (6,282,489), and Cox et al. (6,580,904).

24. Applicant's arguments filed on June 18, 2003 have been fully considered. Upon the amended claims which raise new issue, the new ground of rejections has been set forth as above.

25. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

26. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Tan Nguyen, whose telephone number is (703) 305-9755. The examiner can normally be reached on Monday-Thursday from 5:30 AM-4:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Cuchlinski, can be reached on (703) 308-3873.

Any response to this action should be mailed to:

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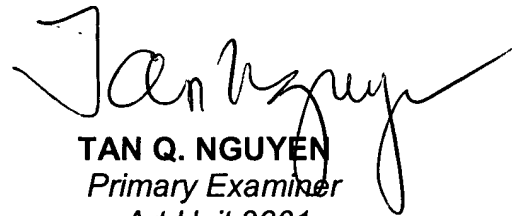
or faxed to:

(703) 305-7687, (for informal or draft communications, please label  
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park V, 2451  
Crystal Drive, Arlington, VA., Seventh Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1113.

/tqn  
August 8, 2003

  
**TAN Q. NGUYEN**  
*Primary Examiner*  
Art Unit 3661



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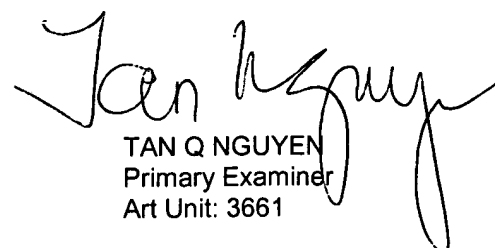
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Commissioner for Patents

  
TAN Q NGUYEN  
Primary Examiner  
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